

## SHSD Job Risk Assessment

<b>Job Number:</b> SHSD- JRA-15 <b>Job Title:</b> Outdoor Field Sampling for Natural Hazards in the Environment	Point Value → Parameter ↓	1	2	3	4	5
<b>Job Description:</b> Taking sampling equipment to the field for sampling and monitoring of Natural Environmental hazards	Frequency (B)	≤once/ year	≤once/ month	≤once/ week	≤once/ shift	>once /shift
<b>Name(s) of Risk Team Members:</b> J. Peters; R. Roberts; F. Zanoni; M. Torres; R. Selvey (07/07/06)	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional): IH SOP Qualification Applicable Standard Operating Procedures for ticks <a href="#">IH89200</a> , microbe <a href="#">IH89300</a> , and heat stress <a href="#">IH101550</a> and <a href="#">IH101600</a> Approved by: R. Selvey Date: 07/07/06 Rev. #:0	Likelihood (D)	Very Unlikely	Unlikely	Possible	Probable	Multiple
<b>Stressors (if applicable, please list all environmental conditions- rain, heat, snow)</b>		<b>Reason for Revision (if applicable):</b>			<b>Comments:</b>	

		Without Controls						Before Additional Controls						After Additional Controls							
Job Step / Task	Hazard	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Preparing Equipment & media	Accessing objects on shelves causing: ergo strain, pinch, abrade of sharp edges, fall from 3" height while reaching	1	3	3	2	18	Storage of heavy equipment on low shelves, stools, ergo training, toe boards on shelves	N	1	3	2	1	6	Tape was added to seal metal edges on the shelves in Room 1-24	N	1	3	1	1	3	09
Going from and Returning to IH lab with equipment and samples	ergo strains, slips/trips	1	3	2	3	18	This equipment is not heavy; Assistance from others on heavy loads when needed, wheeled truck, lifting handles on cases; handrails	Y	1	3	2	2	12								
Loading Equipment into vehicles	Ergo strains, slips/trips, slam finger in door	1	3	3	2	18	Tick sampling equipment is light in weight; heat stress equipment is small handheld size.	Y	1	3	2	2	12								
Travel to site	JRA for vehicular travel	-	-	-	-	-	Controls and risks as per site JRA	-	-	-	-	-	-								

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Travel off roads	Traffic accident, stuck vehicle	2	2	2	2	16	Slow speeds, seat belts, avoiding driving during and after bad weather, appropriate vehicle	Y	2	2	1	2	8								
Site hazards	falls on access to sampling points	1	3	3	3	27	Authority to refuse hazardous location access, most heat stress and tick sampling location are at ground level. Walk slowly and remain alert	N	1	3	3	3	27								
	Diseases/irritation from larval stage ticks and chiggers	1	3	2	2	12	Wear light colored clothing, tuck shirt into pants, long pants tucked into socks; insect repellents. Check body after work outdoors. Report to OMC if bitten.	Y	1	3	2	1	6								
	Diseases from nymphal and adult stage ticks – Lyme disease, Ehrlichiosis, Babesiosis, Rocky Mountain Spotted Fever.	1	3	3	3	27	Wear light colored clothing, tuck shirt into pants, tuck pant legs into socks, insect repellents. Wear Tyvek/Kleengard with booties or knee high rubber boots. Change clothes and shower as soon as possible after leaving the work area. Check body after work outdoors. Report to OMC if bitten for prompt removal.	Y	1	3	2	2	12								
	Bees/Wasp Stings Possible anaphylactic shock for allergic individuals.	1	3	2	2	12	Avoid swarms, call x2468 for pesticide applicators, insect spray, EMTs and OMC have epinephrine for treatment of allergic individuals.	Y	1	3	2	1	6								
	Insect-borne diseases: West Nile Virus, Eastern Equine Encephalitis	1	3	3	3	27	Work during day. Cover skin by long sleeves, long pants, and socks. Use insect repellent.	Y	1	3	3	2	18								
Site Hazards (continued)	Heat stress	1	2	3	3	18	Follow Heat stress alert and use of work/rest regimen. Take frequent breaks.	Y	1	2	1	2	4								
	Cold stress	1	2	1	3	6	Warm clothing, insulated coats, insulated gloves; Take	Y	1	2	1	2	4								

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							vehicles.														
	Ultraviolet –sunlight	1	3	1	3	9	Sunscreen, Safety sunglasses. Wear protective clothing including hats/visor as necessary.	Y	1	3	1	2	6								
	Snake bites	1	2	2	1	4	Avoid rocky areas; Wear long pants and work boots. If bitten go to OMC.	N	1	2	2	1	4								
Taking measurements with area heat stress meters and dosimeters	Exposure to site hazards	1	3	2	2	12	Meter is direct reading, technique that limits metabolic load to the administrative level = light work	Y	1	3	2	1	6								
	Ear injury from dosimeter probe	1	1	3	1	3	SOP on meter use and qualification of users limits risk of wrong insertion.	N	1	1	3	1	3	Revised SOP <a href="#">IH101600</a>							
Taking samples for ticks	Exposure to tick bites	1	3	3	4	36	Flagging technique exposures flag first, full PPE as per <a href="#">SOP IH89200</a>	N	1	3	3	2	18								

### Further Description of Controls Added to Reduce Risk:

- Training for field team doing tick sampling on Poison Ivy was needed. Workers were unsure of the identity of poison ivy and the risk of the oil from contact. A safety pamphlet on poison ivy hazard was reviewed with the field team.

### Lesson Learned from this Risk Assessment:

- IH SOP on heat stress dosimetry [IH101600](#) did not state clearly that the worker, not the SHSD sampler, should be the one to insert the probe into his/her ear. The SOP was revised.

<b>*Risk:</b>	<b>0 to 20</b>	<b>21 to 40</b>	<b>41-60</b>	<b>61 to 80</b>	<b>81 or greater</b>
	<b>Negligible</b>	<b>Acceptable</b>	<b>Moderate</b>	<b>Substantial</b>	<b>Intolerable</b>